

**KHNP****KOREA HYDRO & NUCLEAR POWER CO., LTD**

70-1312-gil, Yuseong-daero, Yuseong-gu, Daejeon, 305-343, KOREA

Tel: +82-42-870-5740 / Fax: +82-42-870-5779

http://www.khnp.co.kr

July 17, 2015

Document Control Desk

U.S. Nuclear Regulatory Commission

Washington, DC 20555-0001

Attention: Mr. Jeff Ciocco  
 Division of New Reactor Licensing

Docket No. 52-046  
 MKD/NW-15-0051L

**Subject: Submittal of the Responses to Action Items from June 30-July 1 MEB and MCB  
 Public Meeting**

The purpose of this letter is to transmit the responses to questions associated with APR1400 MEB and MCB topics, as discussed during the June 30 - July 1 public meeting between the NRC and KHNP. The responses address the action items as follows:

Section	Issue No.	Action Item No.
PTLR TeR	#1, #2	5-5.16, 5-5.17
3.2.2	#7, #9	3-53.4, 3-53.6
3.6.2	#3, #8, #9, #10, #11	3-52.6, 3-52.11, 3-52.12, 3-52.13, 3-52.14
3.6.3	#1, #2, #3, #4	3-53.9, 3-53.10, 3-53.11, 3-53.12
3.13	#1, #2, #3, #4	3-52.20, 3-52.21, 3-52.22, 3-52.23
5.2.4	#1, #2, #3, #5, #6, #7, #8, #9, #10	5-5.1, 5-5.2, 5-5.3, 5-5.5, 5-5.6, 5-5.7, 5-5.8, 5-5.9, 5-5.10
5.3.1	#1, #2, #3	5-5.11, 5-5.12, 5-5.13
5.3.2	#1, #2	5-5.14, 5-5.15
6.2.7	#1, #2	6-13.1, 6-13.2
6.6	#1, #2, #3	6-13.3, 6-13.4, 6-13.5
10.3.5	#1, #2, #3	10-2.5, 10-2.6, 10-2.7
10.4.6	#1, #2	10-2.8, 10-2.9
14.3.3	#10, #11	14-6.2, 14-6.3

The responses to the remaining action items will be submitted later: action items for Sections 3.11 (#1), 3.2.1 (#3), 3.6.2 (#4, #6, #7, #12~16), 3.5.1.3 (#1, #2), 5.4.2.1 (#1~18), 5.4.2.2 (#1~11), 10.2.3(#1~4), and 14.3.3(#9, #12) will be responded to by July 23, 2015; action items for Section 3.6.2 (#1, #2, #5) will be responded to by July 30, 2015.

Enclosure 1 contains a copy of the associated affidavit. Enclosure 2 provides the response to action item 5-5 on PTLR TeR (Proprietary). Enclosures 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 and 15 provide the response to action item 5-5 on PTLR TeR (Non-Proprietary), 3-53 on Section 3.2.2 (Non-Proprietary), 3-52 on Section 3.6.2 (Non-Proprietary), 3-53 on Section 3.6.3 (Non-Proprietary), 3-52 on Section 3.13 (Non-Proprietary), 5-5 on Section 5.2.4 (Non-Proprietary), 5-5 on Section 5.3.1 (Non-Proprietary), 5-5 on Section 5.3.2 (Non-Proprietary), 6-13 on Section 6.2.7 (Non-Proprietary), 6-13 on Section 6.6 (Non-Proprietary), 10-2 on Section 10.3.5 (Non-

Proprietary), 10-2 on Section 10.4.6 (Non-Proprietary), and 14-6 on Section 14.3.3 (Non-Proprietary), respectively.

If additional information or clarification is required, please contact Yunho Kim, Director of KHNP Washington DC Center at [yunho.kim@khnp.co.kr](mailto:yunho.kim@khnp.co.kr) or 703-388-0592.

Sincerely,



Jae-yong Lee  
Project Manager  
Advanced Reactors Development Laboratory  
Korea Hydro and Nuclear Power Co., Ltd

Enclosure:

1. Affidavit KAW-15-0051
2. Response to Action Item 5-5 on PTLR TeR (Proprietary)
3. Response to Action Item 5-5 on PTLR TeR (Non-Proprietary)
4. Response to Action Item 3-53 on Section 3.2.2 (Non-Proprietary)
5. Response to Action Item 3-52 on Section 3.6.2 (Non-Proprietary)
6. Response to Action Item 3-53 on Section 3.6.3 (Non-Proprietary)
7. Response to Action Item 3-52 on Section 3.13 (Non-Proprietary)
8. Response to Action Item 5-5 on Section 5.2.4 (Non-Proprietary)
9. Response to Action Item 5-5 on Section 5.3.1 (Non-Proprietary)
10. Response to Action Item 5-5 on Section 5.3.2 (Non-Proprietary)
11. Response to Action Item 6-13 on Section 6.2.7 (Non-Proprietary)
12. Response to Action Item 6-13 on Section 6.6 (Non-Proprietary)
13. Response to Action Item 10-2 on Section 10.3.5 (Non-Proprietary)
14. Response to Action Item 10-2 on Section 10.4.6 (Non-Proprietary)
15. Response to Action Item 14-6 on Section 14.3.3 (Non-Proprietary)

## **Enclosure 1**

### **Affidavit KAW-15-0051**

I, Jae-yong Lee, state the following:

1. I am the General Manager of Korea Hydro & Nuclear Power Co., Ltd. (KHNP), and as such I am authorized to request withholding the information transmitted with this letter from public disclosure and to execute this affidavit.
2. I am familiar with the criteria applied by KHNP to determine whether certain information is proprietary, and with the policies established by KHNP to ensure the proper application of these criteria.
3. The information, Response to action item 5-5 on PTLR TeR (Proprietary), transmitted with this letter has been classified by KHNP as proprietary in accordance with the policies for the control and protection of proprietary and confidential information. The information regarded as proprietary is identified and marked consistent with the requirements of 10 CFR 2.390, § (b)(1)(i). Accordingly, the proprietary information is enclosed within brackets and the right-hand bracket carries a notation of "TS" to indicate that the trade secret nature of the information claimed to be proprietary is the basis for proposing that the information so identified be withheld from public disclosure.
4. Pursuant to the considerations set forth in 10 CFR Section 2.390(a), KHNP considers the information classified as proprietary to be "trade secret" information since it is design, analysis, or test information that would be difficult for a competitor to reproduce and hence provides an economic and competitive advantage to KHNP.
5. The need for designating the information as proprietary has been raised within KHNP. The information is being treated proprietary and confidential and has not been disclosed by KHNP to the public.
6. Nondisclosure of the proprietary information transmitted with this letter is vital to the competitiveness held by KHNP and, hence, disclosure of the proprietary information transmitted in with this letter would have negative commercial impacts on the competitive position of KHNP in the U.S. nuclear market.
7. In accordance with KHNP policy, proprietary information contained in this document may be, or may have been, made available on a limited basis to regulatory bodies, customers, potential customers, and their agents, suppliers, and licensees, and others under suitable agreements providing for nondisclosure and limited use of the information.

I declare that the foregoing statements are true and correct to the best of my knowledge, information and belief.

Executed on July 17, 2015.



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Jae-yong Lee  
General Manager  
APR1400 Licensing Team  
Central Research Institute  
Korea Hydro & Nuclear Power Co., Ltd.

## **Enclosure 2**

Response to Action Item 5-5 on PTLR TeR

(Proprietary)

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## **Enclosure 3**

Response to Action Item 5-5 on PTLR TeR

(Non-Proprietary)

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## **Enclosure 4**

Response to Action Item 3-53 on Section 3.2.2

(Non-Proprietary)

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## **Enclosure 5**

Response to Action Item 3-52 on Section 3.6.2

(Non-Proprietary)

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## **Enclosure 6**

Response to Action Item 3-53 on Section 3.6.3

(Non-Proprietary)

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## **Enclosure 7**

Response to Action Item 3-52 on Section 3.13

(Non-Proprietary)

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## **Enclosure 8**

Response to Action Item 5-5 on Section 5.2.4

(Non-Proprietary)

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## **Enclosure 9**

Response to Action Item 5-5 on Section 5.3.1

(Non-Proprietary)

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## **Enclosure 10**

Response to Action Item 5-5 on Section 5.3.2

(Non-Proprietary)

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## **Enclosure 11**

Response to Action Item 6-13 on Section 6.2.7

(Non-Proprietary)

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## **Enclosure 12**

Response to Action Item 6-13 on Section 6.6

(Non-Proprietary)

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## **Enclosure 13**

Response to Action Item 10-2 on Section 10.3.5

(Non-Proprietary)

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## **Enclosure 14**

Response to Action Item 10-2 on Section 10.4.6

(Non-Proprietary)

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## **Enclosure 15**

Response to Action Item 14-6 on Section 14.3.3

(Non-Proprietary)

July 17, 2015